Name: Algebra 1 Period\_\_\_\_

January 4, 2016

Homework:

1. Write a quadratic equation with the following roots:
   1. 3 and – 7
   2. – 5 and –1
   3. 0 and 7
   4. and 8
2. Solve the following quadratic equations by factoring only:
   1. (x – 6)(x + 6) = 5x
   2. 2x2 – 3x – 2 = 0
3. Solve the following quadratic equations by completing the square only:
   1. x2 – 4x = 5
   2. x2 + 5x – 24 = 0
4. Solve the following by quadratic formula only:
   1. 4x2 – x – 3 = 0
   2. 2x2 – 9x – 18 = 0
5. Solve the following using any method:
   1. 4x2 – 9 = 0
   2. x2 – x = 90
   3. 3x2 + 2x – 21 = 0
6. In the equation, x2 + 10x + 24 = (x + a)(x + b) , b is an integer, find, algebraically, all possible values of b.